

# Department of the Navy SBIR/STTR Transition Program

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 ONR Approval #2024-12-19-466

Topic # N102-182  
 Compact, lightweight Autonomous Underwater Vehicle (AUV)  
 Hydronalix, Inc.

## WHO

**SYSCOM:** ONR  
**Sponsoring Program:** ONR  
**Transition Target:** MARFORSSYSCOM  
**TPOC:** Patrick Walters  
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**Other Transition Opportunities:** PMS408, PMS340

**Notes:** The company is looking to further develop the AMY platforms for one more program of record with USMC and one more program of record of US Navy.



Multiple dissimilar unmanned system platforms by Hydronalix

## WHAT

**Operational Need and Improvement:** The platform is designed for the last tactical mile logistics supply, wounded soldier medivac patient transfer over water in contested areas. Anti-Submarine Warfare (ASW) capability for expeditionary Marines in forward bases. Early warning radar for incoming aerial threats. Swarm attack of multiple surface vessels.

**Specifications Required:** Robust simple operation with minimal training requirements. Twenty - thirty km operational mission capability. Cargo capacities of 550 pounds. Cost structure allowing for disposable use. Easily operated by junior enlisted. All designs to be non-ITAR to allow for easy transfer to allied partners.

**Technology Developed:** Multiple soft payloads. Advanced communication systems. Advanced navigations systems. Advanced battery systems. Advanced data dissemination throughout ad-hoc mesh networks for near real time delivery to operational command centers.

**Warfighter Value:** Affordable platform costs allow for disposable use. Only four days training for certification of junior enlisted for all platforms. Ideal for expeditionary missions, no sensitive military technology, reducing storage and protection requirements.

## WHEN

**Contract Number:** N68335-24-C-0095 **Ending on:** Nov 30, 2025

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Development of UUV	High	Sea trials	6	4th QTR FY25
Development of Radar Reckless	Medium	Demonstrate live feed to HIMARS	7	4th QTR FY24
Development of ASW	High	ASW Reckless acceptance by USMC	6	3rd QTR FY25
Development of Sonar ARIEL	Medium	Sonar ARIEL acceptance by USMC	9	2nd QTR FY25
Development of ASW ARIEL	High	ASW ARIEL acceptance by USMC	9	2nd QTR FY25
Development of Tactical Sonar AMY	Low	Tactical Sonar AMY USV-1 acceptance by USMC	9	4th QTR FY24
Field Testing of CASEVAC Reckless	High	Field use in Archipelago Endeavor	7	4th QTR FY24
Development of Tactical Ariel	High	Field use at NMIOTC by USMC	7	4th QTR FY24

## HOW

**Projected Business Model:** During CY 2025 the Marine Corps is providing sponsorship support to our Build-Test-Build program during multiple Geographical Combatant Commander focused military exercises. Further, Marine Corps Systems Command has issued an acquisition contract for multiple USV-1/2s and PMS-408 is issuing a contract for multiple USV-2 platforms. Additionally, Naval Information Warfare Command (NAVWAR) is issuing an ID/IQ contract to enable the purchase of all our platforms by operational commands. Hydronalix's product sales intention is to focus initially upon supporting the Marine Corps Component Commander in EUCOM, and after applying lessons learned, expand support into the Indio-Pac region with Marine Forces Pacific. Hydronalix possesses fully operational production facilities in the United States to meet current acquisition orders and is capable of providing support outside of the United States with a facility located in Sweden and plans to add facilities in both Greece and Germany.

**Company Objectives:** Transition from 40% R&D company with 60% production to 25% R&D and 75% production, in revenues. Total of 6 program of records by the end of this contract.

**Potential Commercial Applications:** Disaster response and Search and Rescue industry. Earth science and research. Maritime infrastructure security and monitoring.

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